Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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| UTILITY   | Attorney Docket No. | 90893                   |  |  |  |
|---|---------------------|-------------------------|--|--|--|
| PATENT APPLICATION  | First Inventor      | Antonio Pasquale et al. |  |  |  |
| TRANSMITTAL   | Title               | METHOD FOR WATER DENITR |  |  |  |
| for new nonprovisional applications under 37 CFR 1 53(b)) | Eynress Mail I ahel | FV 337 103 300 US       |  |  |  |

| TRANSMITTAL  | Title                                     |  | METHOD FOR WATER DENITRIFICATION   |   |  |          |  |
|--|---|--|--|---|--|----------|--|
| (Only for new nonprovisional applications under 37 CFR 1.53(b))  | Express Mail Label                        |  |  | 103 390 US  | フ  |          |  |
| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application co   | ontents.                                  | A  | DDRESS TO:   | Commiss<br>P. O. Box  | Patent Application<br>loner for Patents<br>1450<br>a VA 22313-1450   | 22264    |  |
| (preferred arrangement set forth below)  Descriptive title of the invention Cross Reference to Related Applications Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Summary of the Invention Brief Description of the Drawings (if filed) Detailed Description Claim(s) Abstract of the Disclosure  Drawing(s) (35 U.S.C. 113) [Total Sheets]  Newly executed (original or copy)  Copy from a prior application (37 CFI (for continuation/divisional with Box 18 continuation/divisional with Box 18 continuation in the prior application, see 1.63(d)(2) and 1.33(b).  Application Data Sheet. See 37 CFR 1.76  If a CONTINUING APPLICATION, check appropriate specification following the title, or in an Application Data Sheet under Box 5b, is considered a part of the disclosure of the reference. The incorporation can only be relied upon when a 19. COF | 17 /  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 8. Nucleo (if application a).  b.  c.  ACC 9.  1.  2.  3.  4.  7.  4.  7.  The prior a continuation inadverted as a continuation in a con | CD-ROM or CD-I Computer Progratide and/or Aminorable, all necessary)  Computer  Specification Secience  CD-Resident CD-Residen | Readab<br>Quence<br>OM or Coss verifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverifying<br>Serverify | colicate, large table or coendix) Sequence Submission  cole Form (CRF)  Listing on:  CD-R (2 copies); or  coling identity of above copies  color sheet & document(s))  compared to the copies  control of the color of the copies  control of the copies of the copies  control of the copies of the cop | s<br>ney |  |
|  | 24628                                     | <del></del>  | . or \∑  | <b>S</b> Corre  | espondence address below   |          |  |
| Gerald T. Shekleton  |   |  |  |   |  |          |  |
| WELSH & KATZ, LTD.  Address  120 South Riverside Plaza  22nd Floor   |   |  |  |   |  |          |  |
| City Chicago   | State Illi                                | nois   | Zip (  | Code  | 60606  |          |  |
| <del></del>  |   | 2) 655-150   |  | Fax   | (312) 655-1501   |          |  |
| Name (Print/Type) Gerald T. Shekleton Signature  | 0   | Regis  | tration No. (Attorne   | y/Agent)<br>Date  | 27,466<br>October 30, 2003   | )        |  |

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Signature

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| I                                | or FY 20                                   | JU4                    |              | Filing Date          |                      | Octol      | October 30, 2003                     |                  |                     |          |
| Effective 10/01/                 | 2003. Patent fees are sub                  | ject to annual revisi  | on.          | First                | Name                 | d Inve     | ntor Pasqu                           | uale et al.      |                     |          |
| Applicant cla                    | ims small entity status.                   | See 37 CFR 1.2         | 27           | Exan                 | niner N              | lame       | Unas                                 | signed           |                     |          |
|                                  |  |                        | Art Unit     |                      | Unas                 | Unassigned |                                      |                  |                     |          |
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| Deposit<br>Account               | 23-0920                                    | •                      | Code<br>1051 | ( <b>\$</b> )<br>130 | 2051                 | (\$)<br>65 | Surcharge - la                       | •                |                     |          |
| Number                           | 25-0720                                    |                        | 1052         | 50                   | 2052                 |            | -                                    | -                | filing fee or cover |          |
| Deposit<br>Account               | WELSH & KATZ                               | LTD.                   |              |                      |                      |            | sheet                                |                  |                     |          |
| Name                             | **************************************     | -,                     | 1053         | 130                  | 1053                 |            | Non - English                        | •                |                     |          |
| The Director is author           |  |                        |              | 2,520                |                      |            | -                                    |                  | rte reexamination   |          |
| Charge fee(s) ind                | icated below Credit a                      | any overpayments       | 1804         | 920*                 | 1804                 | 920"       | action                               | iolication of SI | R prior to Examiner |          |
|                                  | onal fee(s) or any underpayme              | •                      | 1805         | 1,840*               | 1805 1               | 1,840*     | Requesting pu                        | blication of SI  | R after Examiner    |          |
|                                  | icated below, except for the f             | lling fee              | 1251         | 110                  | 2251                 | 55         | Extension for                        | eply within firs | st month            |          |
| to the above-identified          |  |                        | 1252         | 420                  | 2252                 | 210        | Extension for I                      | reply within se  | cond month          |          |
|                                  | FEE CALCULATION                            |                        | 1253         | 950                  | 2253                 |            | Extension for I                      |                  |                     |          |
| 1. BASIC FILI<br>Large Entity Sm |  |                        | 1254         |                      | 2254                 | 740        | Extension for                        | reply within fou | urth month          |          |
|                                  | Fee Fee Description                        |                        | 1255         | 2,010                | 2255                 |            | Extension for                        |                  |                     |          |
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| 1001 770 200                     |  | 770.00                 | 1402         | 330                  | 2402                 | 165        | Filing a brief in                    | support of an    | appeal .            |          |
| 1002 340 200                     | , • •                                      |                        | 1403         | 290                  | 2403                 | 145        | Request for or                       | al hearing       |                     |          |
| 1003 530 200<br>1004 770 200     | ,  |                        | 1451         | 1,510                | 1451                 | 1,510      | Petition to inst                     | itute a public u | use proceeding      |          |
| 1004 770 200<br>1005 160 200     | Ŧ  | fee                    | 1452         |                      | 2452                 | 55         | Petition to rev                      | ive - unavoida   | ble                 |          |
| 1003 100   200                   | SUBTOTAL (1)                               |                        | 1453         | 1,330                | 2453                 | 665        | Petition to rev                      | ive - unintentio | onal -              |          |
|                                  | SUBTUTAL (1)                               | (\$) \$770.00          |              | 1,330                | 2501                 | 665        | Utility issue fe                     | e (or reissue)   | :                   |          |
| 2. EXTRA CL                      | AIM FEES FOR UTILIT                        | Y AND<br>ee from       | 1502         |                      | 2502                 | 240        | Design issue t                       | ee               |                     |          |
| 1.                               |  | below Fee Paid         | 1503         |                      | 2503                 | 320        | Plant issue fee                      | e                |                     |          |
| Total Claims                     | 5 -20** = 0 X                              | 18.00 = 0.00           | 1460         | 130                  | 1460                 | 130        | Petitions to the                     | e Commission     | er                  |          |
| Independent<br>Claims            |  | 84.00 = 0.00           | 1807         | 50                   | 1807 -               | 50         | Processing fe                        | e under 37 CF    | R § 1.17(q)         |          |
| Multiple Dependent               | · · · · · · · · · · · · · · · · · · ·      | =                      | 1806         | 180                  | 1806                 | 180        | Submission of                        | f Information D  | Disclosure          |          |
| Fee Fee Fee Code (\$)            |  | iption                 | 8021         | 40                   | 8021                 | 40         | Statement Recording eac (times numbe |                  | gnment per property | ,        |
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| 1203 290 220                     | 3 145 Multiple depende                     | ent claim, if not paid | 1810         | 770                  | 2810                 | 385        | (37 CFR § 1                          | .129(b))         | ii to be examined   |          |
| 1204 86 220                      | 04 43 ** Reissue indep<br>over original pa | endent claims<br>atent | 1801<br>1802 |                      | ŀ                    |            | Request for C                        |                  | nination (RCE)      |          |
| 1205 18 220                      |  | s in excess of 20      |              | 300                  | 1 .502               | . 500      | of a design ap                       | plication        | •                   |          |
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|                                  | SUBTOTAL (2)                               | (\$) \$0.00            |              |                      |                      |            |                                      |                  |                     | ,        |
| ••or number previo               | ously paid, if greater; For R              | eissues, see above     | *Re          | duced b              | y Basic              | Filing     | Fee Paid                             | SUBTO            | TAL (3) (\$)        |          |
| SUBMITTED BY                     |  |                        |              | D                    |                      |            |                                      | Complete (       | f applicable)       |          |
| Name (Print/Type)                | Gerald T.                                  | Shekleton              |              | Registr<br>(Attorne) | ation No<br>y/Agent) |            | 27,466                               | Telephone        | (312) 655           | -1500    |
| Signature                        | () 1,20                                    | LAT. Shel              | ساير         |                      |                      |            |                                      | Date             | October 30,         | 2003     |

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Utility Patent Application Transmittal (1 pg.); Fee Transmittal (1 pg.) in duplicate; Specification (17 pgs.); Declaration & POA (copy) (3 pgs.); Application Data Sheet; Information Disclosure Statement; Form PTO-1449 including cited references (8); Certificate of Express Mail; Check in the amount of \$770.00; and Return Postcard

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